HARSH RAI

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EDUCATION

Indian Institute of Information Technology Jabalpur　　　　　　**Aug 2023 – Aug 2027**
Bachelor of Technology Computer Science and Engineering　　　　　　*Jabalpur, India*

COURSEWORK / SKILLS

- Data Structures & Algorithms
- Operating Systems
- Computer Network
- Database Management System (DBMS)
- OOPS Concept
- Web Development
- Computer Architecture & Organization
- Cloud Deployment
- Version Control
- Communication
- Teamwork
- Problem Solving
- Analytical Thinking

PROJECTS

WanderStay ↗ | MongoDB, Express.js, React, Node.js　　　　　　**Jun 2025**

- Built a full-featured travel booking platform using the MERN stack, allowing users to explore, book, and manage travel accommodations seamlessly.
- Implemented key booking workflows including package discovery, date selection, availability checks, and booking confirmation with a user-centric design.
- Developed a responsive, mobile-friendly UI using React.js with React Router, Context API, and modular component architecture for enhanced reusability.
- Engineered a secure authentication system using JWT and bcrypt to support user signup, login, and protected session handling.
- Built RESTful APIs with Node.js and Express.js to handle user accounts, travel packages, and booking logic; used MongoDB Atlas for scalable data storage.
- Integrated image upload via Multer and Cloudinary for dynamic travel listings, and deployed the full-stack application on Render for production readiness.

Apna-VideoCall ↗ | MongoDB, Express.js, React, Node.js　　　　　　**Mar 2025**

- Built a real-time video conferencing platform using the MERN stack, enabling secure, high-quality virtual meetings with seamless real-time communication.
- Integrated peer-to-peer video/audio streaming, real-time chat, and dynamic room management using WebRTC and Socket.IO.
- Created custom room creation and joining features with unique room IDs and user authentication to secure meeting access.
- Built responsive front-end interfaces in React.js with dynamic video grid layouts supporting multiple participants and screen sharing.
- Utilized Redux for efficient application state management, including user sessions, chat messages, media stream controls, and real-time UI synchronization.
- Merged advanced media controls such as microphone mute/unmute, camera toggle, screen sharing, and real-time participant notifications.
- Designed RESTful APIs for user and session management, and deployed the application on Render for scalable, production-ready cloud hosting.

Rank-Sphere | Mysql, Express.js, React, Node.js ,Tailwind CSS　　　　　　**Dec 2024**

- Created a full-stack web application Rank Sphere, using the MERN stack with React for the frontend and Node.js/Express for the backend.
- Established a user signup system that stores coding platform IDs (CodeChef, Codeforces, LeetCode) for personalized data tracking.
- Incorporated public APIs to fetch and display real-time competitive programming ratings and problem-solving statistics.
- Designed a performance analytics dashboard featuring total problems solved and a pie chart for topic-wise problem distribution.
- Optimized API request handling and automated data updates to ensure real-time ranking and performance tracking without manual refresh.

TECHNICAL SKILLS

Languages: C, C++, Python, Java, Html, CSS, JavaScript, SQL, NoSQL
Technologies/Frameworks: Git,GitHub, ReactJS, Redux, NodeJS, ExpressJS, Mongodb, Bootstrap, Tailwind CSS